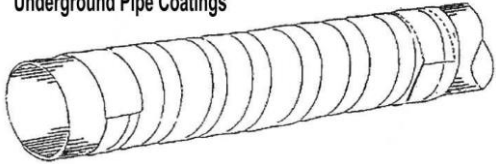


## POLYKEN 980 Tape

The Valuable Solution For  
Underground Pipe Coatings



### POLYKEN 980 / 955

### Cold Applied Tape Coating System

#### Description

The **POLYKEN® 980 / 955** is a multilayer system used for the protection of steel pipelines. **POLYKEN® 1027 / 1019** Liquid Adhesives can be used as primers for this system. In addition to serving as primers, these liquid adhesives themselves, represent an anticorrosion layer and provide a uniformly smooth contact surface to promote high adhesion of the coating system to the pipe. They are designed for machine or brush application and formulated with stress-corrosion cracking inhibitors. The anti-corrosion layer **POLYKEN® 980** is engineered to assure a high bond to the primed surface with excellent conformability characteristics. The mechanical protection layer **POLYKEN® 955** achieves a complete bond to the **POLYKEN® 980** inner layer, providing maximum handling and in-service protection for the coating system. The adhesives in these and all **POLYKEN®** tape systems contain proven anti-microbial additives. The **POLYKEN® 980 / 955** can also be used for ductile iron pipes, in this case the use of **POLYKEN® 1027** primer is recommended.

#### System Components

Primer layer: 1019 / 1027  
 Inner layer: 980 (Black)  
 Outer layer: 955 (White)

#### Structure

Backing: Special blend of stabilized polyethylene  
 Adhesive: Butyl rubber and adhesion promoting resins

#### Features

Resistant to soil stress  
 Excellent adhesion to pipe and self  
 Low cathodic protection  
 Long term in-ground performance  
 Serve for low-high temperatures

Cold applied  
 Uniform coating thickness  
 Compatible with all pipe diameters and generic plant coating systems  
 Qualified ASTM D1000, AWWA C214, EN 12068 standards

#### Properties

PROPERTIES	TEST METHOD	TYPICAL VALUES			
		POLYKEN 980-15	POLYKEN 980-20	POLYKEN 980-25	POLYKEN 980-30
Total thickness:		15 mils (0.381mm)	20 mils (0.508mm)	25 mils (0.635mm)	30 mils (0.762mm)
Backing of PE film		9 mils (0.229mm)	12 mils (0.305mm)	13 mils (0.330mm)	10 mils (0.254mm)
Butyl rubber adhesive		6 mils (0.152mm)	8 mils (0.203mm)	12 mils (0.305mm)	20 mils (0.508mm)
Tensile strength:	ASTM D1000	40 N/cm	55 N/cm	62 N/cm	70 N/cm
Elongation	ASTM D1000	300%	330%	350%	400%
Peel Adhesion to Primed Pipe	ASTM D1000	24.5 N/cm	25 N/cm	26.5 N/cm	30 N/cm
Water Vapor Transmission Rate	ASTM E96	0.10g/m <sup>2</sup>	0.10g/m <sup>2</sup>	0.09g/m <sup>2</sup>	0.08g/m <sup>2</sup>
Water Absorption at +23 °C	ASTM D570	0.10%	0.10%	0.08%	0.06%
Volume Resistivity	ASTM D257	2.0 x 10 <sup>15</sup> ohm.cm	2.5x10 <sup>15</sup> ohm.cm	2.5x10 <sup>15</sup> ohm.cm	2.5x 10 <sup>15</sup> ohm.cm
Dielectric Strength	ASTM D149	30 kV	35 kV	42kv	43kv
Application temperature		-20 to +70 °C			
Max Serve temperature		-40 to +80 °C			